

G-BH 1 N Data sheet 2BH1 910

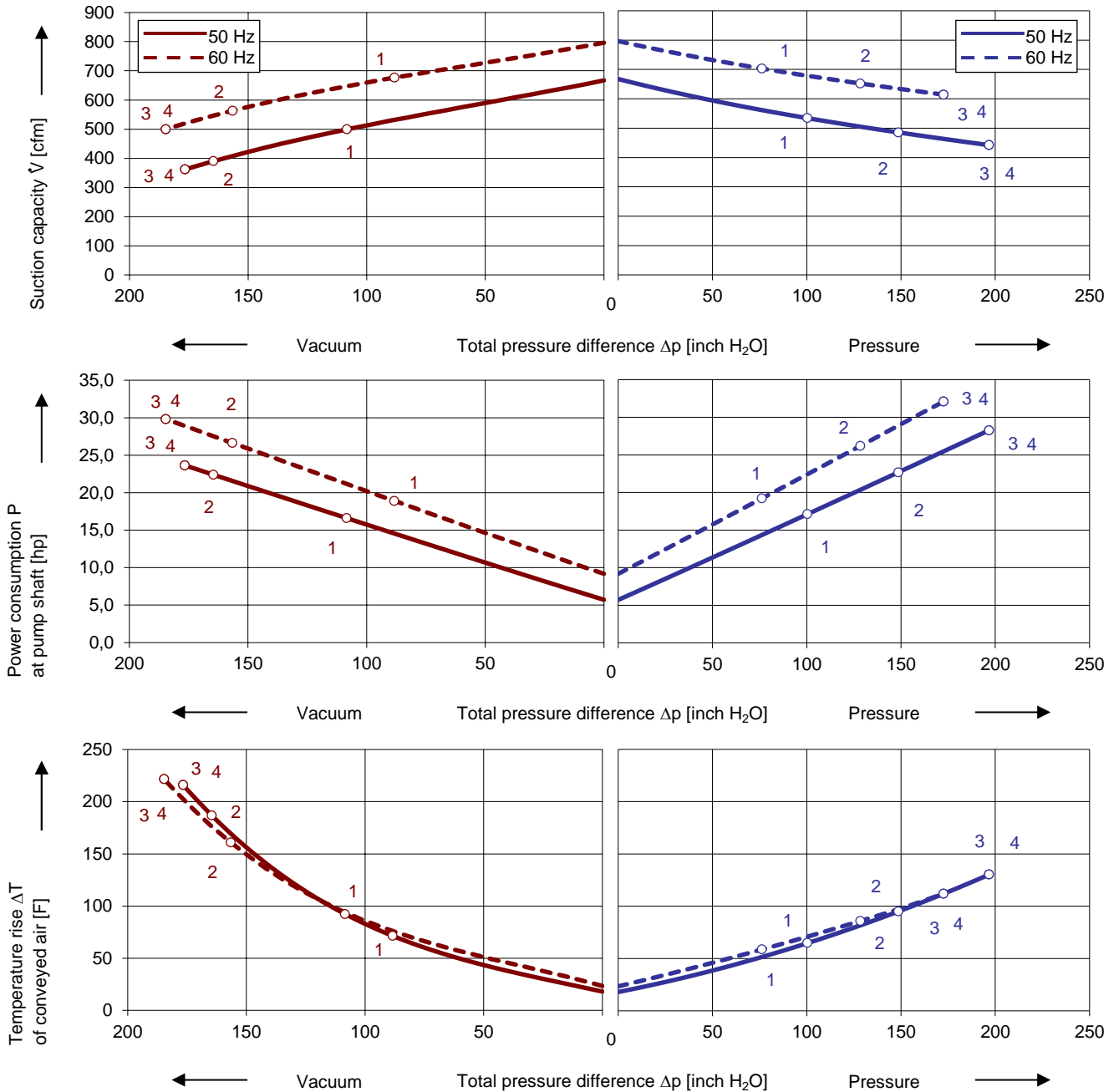
Side channel blower with NEMA Premium motor



Performance curves

Vacuum operation (acfm)

Pressure operation (scfm)



The performance curves are based on air at a temperature of 59 F and an atmospheric pressure of 29.92 inch Hg with a tolerance of $\pm 10\%$. The total Suction capacity relates to inlet conditions. Pressure capacity relates to atmospheric conditions. For other conditions please contact Elmo Rietschle.

Every G-BH blower can be used either for vacuum or pressure in continuous operation over the total performance curve range. The standard motors have a protection category of IP 55 and insulation class F. These blowers are UL and CSA approved.

Selection and ordering data

Type											
No.	Fre- quency Hz	Rated			Max. differential ²⁾ pressure		sound press. level ³⁾ dB(A)	Efficiency class ⁴⁾	Weight approx. lbs	Order No.	
		Voltage ¹⁾		Current	Power	Vacuum					Pressure
		V		A	hp	inch H ₂ O					
IE3 3- 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)											
1	50	190-210 Δ		46,4 Δ	16,9	-108	96	74	IE3	650	2BH1910-1HK11
	60	190-210 YY / 380-420 Y		52,8 YY / 26,4 Y	19,4	-88	76	84	IE3		
	60	200 YY		52,8 YY	19,4	-88	76	84	NP		
2	50	190-210 Δ		63,1 Δ	23,2	-165	145	74	IE3	668	2BH1910-1HK21
	60	190-210 YY / 380-480 Y		72,2 YY / 36,1 Y	26,7	-145	120	84	IE3		
	60	200 YY		72,2 YY	26,7	-145	120	84	NP		
3	50	190-210 Δ		76,2 Δ	28,6	-177	193	74	IE3	657	2BH1910-1HK31
	60	190-210 YY / 380-420 Y		87,4 YY / 43,7 Y	32,9	-177	165	84	IE3		
	60	200 YY		87,4 YY	32,9	-177	165	84	NP		
4	50	190-210 Δ		92,5 Δ	33,9	-177	237	74	IE3	739	2BH1910-1HK41
	60	190-210 YY / 380-420 Y		107,0 YY / 53,5 Y	38,9	-181	217	84	IE3		
	60	200 YY		107,0 YY	38,9	-181	217	84	NP		
IE3 3- 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)											
1	50	220-240 Δ / 380-420 Y		40,3 Δ / 23,3 Y	16,9	-108	96	74	IE3	650	2BH1910-1HK16
	60	220-240 YY / 440-480 Y		46,0 YY / 23,0 Y	19,4	-88	76	84	IE3		
	60	230 YY / 460 Y		46,0 YY / 23,0 Y	19,4	-88	76	84	NP		
2	50	220-240 Δ / 380-420 Y		54,9 Δ / 31,7 Y	23,2	-165	145	74	IE3	668	2BH1910-1HK26
	60	220-240 YY / 380-420 Y		62,8 YY / 31,4 Y	26,7	-145	120	84	IE3		
	60	220-240 Δ / 380-420 Y		66,3 Δ / 38,3 Y	28,6	-177	193	74	IE3		
3	50	220-240 YY / 440-480 Y		76,0 YY / 38,0 Y	32,9	-177	165	84	IE3	657	2BH1910-1HK36
	60	220-240 YY / 440-480 Y		76,0 YY / 38,0 Y	32,9	-177	165	84	NP		
	60	230 YY / 460 Y		76,0 YY / 38,0 Y	32,9	-177	165	84	NP		
4	50	220-240 Δ / 380-420 Y		80,5 Δ / 46,5 Y	33,9	-177	237	74	IE3	739	2BH1910-1HK46
	60	220-240 YY / 440-480 Y		93,0 YY / 46,5 Y	38,9	-181	217	84	IE3		
	60	230 YY / 460 Y		93,0 YY / 46,5 Y	38,9	-181	217	84	NP		
IE3 3- 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)											
1	50	500 Y		18,6 Y	16,9	-108	96	74	IE3	578	2BH1910-1HQ13
	60	575 Y		18,4 Y	19,4	-88	76	84	NP		
2	50	500 Y		25,4 Y	23,2	-165	145	74	IE3	668	2BH1910-1HQ23
	60	575 Y		25,1 Y	26,7	-145	120	84	NP		
3	50	500 Y		30,6 Y	28,6	-177	193	74	IE3	657	2BH1910-1HQ33
	60	575 Y		30,4 Y	32,9	-177	165	84	NP		
4	50	500 Y		37,2 Y	33,9	-177	237	74	IE3	683	2BH1910-1HQ43
	60	575 Y		37,2 Y	38,9	-181	217	84	NP		
IE3 3- 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378)											
1	50	380-420 Δ / 660-725 Y		23,3 Δ / 13,4 Y	17,0	-108	96	74	IE3	578	2BH1910-1HQ17
	60	440-480 Δ		23,0 Δ	19,4	-88	76	84	IE3		
	60	460 Δ		23,0 Δ	19,4	-88	76	84	NP		
2	50	380-420 Δ / 660-725 Y		31,7 Δ / 18,3 Y	23,2	-165	145	74	IE3	668	2BH1910-1HQ27
	60	440-480 Δ		31,4 Δ	26,7	-145	120	84	IE3		
	60	460 Δ		31,4 Δ	26,7	-145	120	84	NP		
3	50	380-420 Δ / 660-725 Y		38,3 Δ / 22,1 Y	28,6	-177	193	74	IE3	657	2BH1910-1HQ37
	60	440-480 Δ		38,0 Δ	32,9	-177	165	84	IE3		
	60	460 Δ		38,0 Δ	32,9	-177	165	84	NP		
4	50	380-420 Δ / 660-725 Y		46,5 Δ / 26,8 Y	33,9	-177	237	74	IE3	683	2BH1910-1HQ47
	60	440-480 Δ		46,5 Δ	38,9	-177	217	84	IE3		
	60	460 Δ		46,5 Δ	38,9	-177	217	84	NP		

- 1) In case of variable frequency drive operation the standard motor insulation system is suitable for VFD input voltages up to 500 V.
- 2) Relief valves available for limiting differential pressure.
- 3) Surface sound pressure levels are according to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ±3 dB (A).
- 4) The motors according to NEMA MG1-12. NP=NEMA Premium; NEMA Premium includes IE3.

All G-BH blowers conform to the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Service factor (SF) and motor efficiency according NEMA MG1-12.

Voltage tolerances for three phase motors are +/-10%.

The frequency tolerance is +/- 2 % maximum.

Voltage range		Efficiency ⁴⁾		60 Hz	
50 Hz	60Hz			2BH1...-1.	<input type="checkbox"/>
3-					
200 VΔ	200 V YY / 230 VΔ / 400 VY		IE3	•	K 1
190-210 VΔ	190-210 VYY / 220-240 VΔ / 380-420VY				
200 V YY / 230 VΔ / 400 VY	230 V YY / 460 VY		IE3	•	K 6
190-210 VYY / 220-240 VΔ / 380-420VY	220-240 VYY / 440-480VY				
475-525 V Y	550-600 V Y		IE3	•	Q 3
475-525 VΔ	550-600 VΔ				
400 VΔ / 690 V Y	460 VΔ		IE3	•	Q 7

Changes in particular of the quoted performance curve, data and weights may occur without prior notice. The data given does not constitute an obligation from our side to deliver as shown.

Elmo Rietschle is a brand of Gardner Denver

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